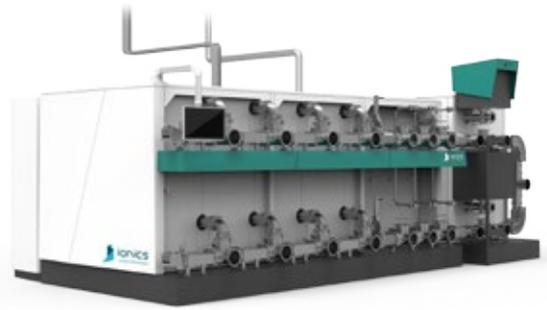# ionR2R [90]

Designed by ionics

Continuous low-pressure system equipped with an ion implantation technology dedicated to the treatment of reels and wires

The ionR2R industrial line is used for continuous ion implantation processing applications, it allows a precise and high speed production. The treatment can be selective or total on both sides. The reels of stamped strips can be up to 90 mm wide. The system is equipped with two ionGUN's 2000. The ion source is able to use different gases, ensuring an efficient and homogeneous environmentally friendly dry process.

TECHNICAL DATA

Power supply	General power: 400 V / 180 A Frequency: 10 GHz / 50 W Power: up to 600 W Ion energy: up to 40 kV Ion current: up to 15 mA
Vacuum pressure	10^{-7} mbar in MAP / 10^{-6} mbar in Chamber
Number of ionGUN's used	2
Substrat size	W90xH1,5mm max (adjustable as an option)
Processing capacity	Continuous air-vacuum-air reel-to-reel process
Dimensions of the machine	L10500xW4500xH3000 mm
Weight	3500 kg
Water cooling system	Yes – demineralized water

Features

- Coating sources: ion implantation – PVD also available on request
- Lock chamber allowing continuous treatment in the process chamber
- Fully integrated automated control system with intuitive HMI
- Any gas can be used: Ar, He, N_2, O_2, SiH_4 as well as mixtures

Option

- Circular PVD cathode for precious metal plating process (max 3-inch / 76 mm)
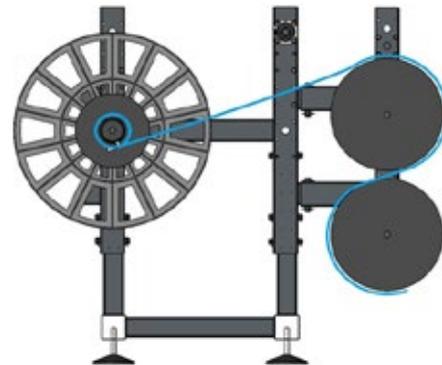
Applications

- Automotive and aeronautic
- Household appliances
- Connectors and electrical components
- Decorative

Corrosion resistance, low friction coefficient, higher wear resistance, antistatic effects, better reliability, thinner metallic layers, colors or surface finish

Treated materials are metals, polymers and elastomers,…

The innovation is supported by the Walloon Region through the WALIBEAM project which gathers major industrial actors in the fields of surface treatment of glass, metal and polymer.